Python project code:

#for now()

import datetime as dt

#for sending http requests using python

import requests

# for timezone()

import pytz

#drawing

import turtle

from pprint import pprint

def weather\_data(query):

res=requests.get('http://api.openweathermap.org/data/2.5/weather?'+query+'&APPID=94337f826ff1729439c513de2bd404df&units=metric');

return res.json();

def print\_weather(result,city):

print("{}'s temperature: {}°C ".format(city,result['main']['temp']))

print("Wind speed: {} m/s".format(result['wind']['speed']))

print("Humidity: {}%".format(result['main']['humidity']))

print("Pressure: {} mbar".format(result['main']['pressure']))

print("Description: {}".format(result['weather'][0]['description']))

#report=print("Weather: {}".format(result['weather'][0]['main']))

report=result['weather'][0]['main']

print("Weather: {}".format(report))

print("Sun Rises in {}: {} local time.".format(city,dt.datetime.utcfromtimestamp(result['sys']['sunrise']+result['timezone'])))

print("Sun Sets in {}: {} local time.".format(city,dt.datetime.utcfromtimestamp(result['sys']['sunset']+result['timezone'])))

print()

if(report=="Clear"):

print(" ")

print(" \\_ \_/ ")

print(" \_ / \ \_ ")

print(" \\_ \_/ ")

print("   / \  ")

screen = turtle.Screen()

# background color

screen.bgcolor("lightblue")

# turtle object

y = turtle.Turtle()

def drawFourRays(t, length, radius):

for i in range(4):

y.penup()

y.forward(radius)

y.pendown()

y.forward(length)

y.penup()

y.backward(length + radius)

y.left(90)

y.penup()

# Use the defined

# function to draw rays

y.penup()

y.goto(85, 169)

y.pendown()

drawFourRays(y, 85, 54)

y.right(45)

drawFourRays(y, 85, 54)

y.left(45)

def filled\_circle(radius, color):

t.color(color,color)

t.begin\_fill()

t.circle(radius)

t.end\_fill()

def cloud(radius, cloud\_color="white"):

filled\_circle(radius,cloud\_color)

t.forward(radius)

filled\_circle(radius,cloud\_color)

t.right(90)

filled\_circle(radius,cloud\_color)

t.right(90)

filled\_circle(radius,cloud\_color)

t.right(90)

filled\_circle(radius,cloud\_color)

t.right(90)

y.penup()

y.goto(85, 110)

y.fillcolor("yellow")

y.pendown()

y.begin\_fill()

y.circle(45)

y.end\_fill()

radius = 50

cloud(radius)

turtle.done()

if (report=="Haze"):

print(" \_ - .--. \_ - \_ -")

print("-\_ .-( ). - \_ -")

print(" -(\_.\_)) - \_ - ")

print(" \_ - \_ - \_ - ")

if (report=="Clouds"):

print(" ")

print(" \ \_/ .--. ")

print(" \_ / .-. .-( ). ")

print(" \( ). (\_.)\_) ")

print("   /(\_(\_\_)   ")

if (report=="Mist" or report=="Smoke"):

print(" \_ - \_ - \_ - ")

print("- \_ - \_ ← \_ ")

print(" \_ - \_ - \_ - ")

if (report=="Rain"):

print(" .--. ")

print(" .-( ). ")

print(" (\_.\_)\_) ")

print(" ⚡‘‘⚡‘‘ ")

print(" ‘ ‘ ‘ ‘ ")

'''z=turtle.Turtle()

screens=turtle.Screen()

screens.bgcolor("whitesmoke")

def filled\_circle(radius, color):

z.color(color,color)

z.begin\_fill()

z.circle(radius)

z.end\_fill()

def rainbow(radius=200,interval=10):

roygbiv=['red', 'orange', 'yellow', 'green', 'blue', 'indigo', 'violet', 'whitesmoke']

for r\_color in roygbiv:

filled\_circle(radius,r\_color)

radius -= interval

# Move turtle a up by a little

z.pendown()

z.left(90)

z.forward(interval)

z.right(90)

z.penup()

z.goto(0,0)

rainbow(300,10)

turtle.done()'''

sc = turtle.Screen()

pen = turtle.Turtle()

def semi\_circle(col, rad, val):

pen.color(col)

pen.circle(rad, -180)

pen.up()

pen.setpos(val, 0)

pen.down()

pen.right(180)

col = ['violet', 'indigo', 'blue','green', 'yellow', 'orange', 'red']

sc.setup(600, 600)

sc.bgcolor('whitesmoke')

pen.right(90)

pen.width(10)

pen.speed(7)

for i in range(7):

semi\_circle(col[i], 10\*(i + 8), -10\*(i + 1))

pen.hideturtle()

def main():

#current\_time = dt.datetime.now()

#print("Time now at greenwich meridian is:", current\_time)

# using now() to get current time

current\_time = dt.datetime.now(pytz.timezone('Asia/Kolkata'))

print("The current time in India is :", current\_time)

print()

city=input('Enter the city:')

print()

print("----------------------------------------------")

try:

query='q='+city;

w\_data=weather\_data(query);

print\_weather(w\_data, city)

print()

except:

print('City name not found...')

if \_name=='main\_':

main()